

GenCore version 4.5  
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OM protein - protein search, using sw model

Run on: June 18, 2001, 15:34:07 ; Search time 78.57 Seconds  
(without alignments)  
360.357 Million cell updates/sec

Title: US-09-653-755a-5

Perfect score: 1121  
Sequence: 1 ENVLQSPAIMSASPGKAVT.....EATHTKTSPIYKFNRMNC 214

Scoring table:  
BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 425026 seqs, 132305027 residues

Total number of hits satisfying chosen parameters: 425026

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Maximum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database :  
1: SP.EMB16:\*  
2: sp.archaea:\*  
3: sp.bacteria:\*  
4: sp.fungi:\*  
5: sp.human:\*  
6: sp.invertebrate:\*  
7: sp.mhc:\*  
8: sp.organelle:\*  
9: sp.phage:\*  
10: sp.plant:\*  
11: sp.podent:\*  
12: sp.unclassified:\*  
13: sp.vertebrate:\*  
14: sp.virus:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

| Result No. | Score | Query Match | Length | DB ID     | Description        |
|------------|-------|-------------|--------|-----------|--------------------|
| 1          | 881   | 78.6        | 214    | 11 09R1A5 | 09R1A5 mus musculi |
| 2          | 427.5 | 38.1        | 106    | 5 09U410  | 09U410 schistosoma |
| 3          | 415   | 37.0        | 97     | 11 09UL76 | 09J176 mus musculi |
| 4          | 392   | 35.0        | 101    | 11 09UL78 | 09J178 mus musculi |
| 5          | 369.5 | 33.0        | 109    | 4 09UL78  | 09U178 homo sapien |
| 6          | 351   | 31.3        | 108    | 4 09UL77  | 09U177 homo sapien |
| 7          | 348.5 | 31.1        | 109    | 4 09UL86  | 09U186 homo sapien |
| 8          | 346   | 30.9        | 108    | 4 09UL70  | 09U170 homo sapien |
| 9          | 345.5 | 30.8        | 109    | 4 09UL85  | 09U185 homo sapien |
| 10         | 343   | 30.6        | 108    | 4 09UL79  | 09U179 homo sapien |
| 11         | 341.5 | 30.5        | 107    | 4 09UL81  | 09U181 homo sapien |
| 12         | 341   | 30.4        | 108    | 4 09UL83  | 09U183 homo sapien |
| 13         | 340   | 30.3        | 298    | 11 09ULF0 | 09Y180 mus musculi |
| 14         | 307   | 27.4        | 107    | 11 09UL84 | 09J184 mus musculi |
| 15         | 298   | 26.6        | 99     | 11 09UL84 | 09J184 mus musculi |
| 16         | 291   | 26.0        | 107    | 11 09ER29 | 09ER29 mus musculi |
| 17         | 285   | 25.4        | 103    | 11 09J180 | 09J180 mus musculi |
| 18         | 278.5 | 24.8        | 104    | 11 09J182 | 09J182 mus musculi |
| 19         | 267   | 23.8        | 114    | 4 09UL80  | 09U180 homo sapien |

|    |       |      |     |           |                    |
|----|-------|------|-----|-----------|--------------------|
| 20 | 262   | 23.4 | 109 | 6 09N0M5  | 09N0M5 oryctolagus |
| 21 | 237.5 | 21.2 | 107 | 4 09NSD6  | 09NSD6 homo sapien |
| 22 | 229   | 20.4 | 107 | 4 09UL82  | 09UL82 homo sapien |
| 23 | 204.5 | 18.2 | 267 | 13 090529 | 090529 ginglymasto |
| 24 | 204   | 18.2 | 509 | 11 090X57 | 09X57 mus musculi  |
| 25 | 204   | 18.2 | 513 | 11 P97797 | P97797 mus musculi |
| 26 | 203   | 18.1 | 503 | 4 P78324  | P78324 homo sapien |
| 27 | 199   | 17.8 | 268 | 13 090524 | 090524 ginglymasto |
| 28 | 198   | 17.7 | 504 | 4 09UL86  | 09U186 homo sapien |
| 29 | 197.5 | 17.6 | 109 | 11 09ER13 | 09ER13 mus musculi |
| 30 | 195   | 17.4 | 509 | 11 008907 | 008907 mus musculi |
| 31 | 194.5 | 17.4 | 398 | 4 000241  | 000241 homo sapien |
| 32 | 193.5 | 17.3 | 372 | 4 09Y4V0  | 09Y4V0 homo sapien |
| 33 | 192.5 | 17.2 | 361 | 4 09H1U5  | 09H1U5 homo sapien |
| 34 | 190.5 | 17.0 | 437 | 11 09R1A4 | 09R1A4 mus musculi |
| 35 | 189   | 16.9 | 509 | 11 09WNT4 | 09WNT4 mus musculi |
| 36 | 187.5 | 16.7 | 509 | 11 P97710 | P97710 rattus norv |
| 37 | 183   | 16.3 | 257 | 13 090536 | 090536 ginglymasto |
| 38 | 182.5 | 16.3 | 418 | 11 070426 | 070426 rattus norv |
| 39 | 182.5 | 16.3 | 509 | 11 090M15 | 09M15 rattus norv  |
| 40 | 178   | 15.9 | 416 | 4 09NPE6  | 09NPE6 homo sapien |
| 41 | 178   | 15.9 | 684 | 13 090544 | 090544 ginglymasto |
| 42 | 177.5 | 15.8 | 354 | 4 09P1W8  | 09P1W8 homo sapien |
| 43 | 177.5 | 15.8 | 354 | 4 09NOK8  | 09NOK8 homo sapien |
| 44 | 173   | 15.4 | 324 | 4 09Y4U9  | 09Y4U9 homo sapien |
| 45 | 172.5 | 15.4 | 237 | 13 090545 | 090545 ginglymasto |

## ALIGNMENTS

| RESULT   | 1   | PRELIMINARY | PRT | 214 AA. |
|--|---|-------------|-----|---------|
| 09R1A5   | 09R1A5  |             |     |         |
| AC   | 09R1A5  |             |     |         |
| DT   | 01-MAY-2000 (TREMBLrel. 13, Created)  |             |     |         |
| DT   | 01-MAY-2000 (TREMBLrel. 13, Last sequence update)   |             |     |         |
| DT   | 01-MAR-2001 (TREMBLrel. 16, Last annotation update)   |             |     |         |
| DE   | KAPPA LIGHT CHAIN OF MAB7 (FRAGMENT).   |             |     |         |
| OS   | Mus musculus (Mouse).   |             |     |         |
| OC   | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;   |             |     |         |
| OC   | Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.   |             |     |         |
| OX   | NCBI_Taxid=10090;   |             |     |         |
| RN   | [1]   |             |     |         |
| RP   | SEQUENCE FROM N.A.  |             |     |         |
| RA   | Wilde K.G., Yu X., Ekramoddoullah A.K.M., Misra S.;   |             |     |         |
| RT   | "Cloning of cDNAs encoding for anti-white pine blister rust monoclonal antibody (Mab 7, its light and heavy chains) and construction of a |             |     |         |
| RT   | single chain antibody (scFv)."  |             |     |         |
| RL   | Submitted (MAR-1999) to the EMBL/GenBank/DBJ databases.   |             |     |         |
| DR   | EMBL; AF152371; AAD40242.1; -.  |             |     |         |
| DR   | HSSP; P01789; IMCP.   |             |     |         |
| DR   | Interpro; IPR003006; -.   |             |     |         |
| DR   | Interpro; IPR003600; -.   |             |     |         |
| DR   | Pfam; PF00047; Ig_2.  |             |     |         |
| DR   | PROSITE; PS00290; IG_MHC; UNKNOWN_1.  |             |     |         |
| DR   | SMART; SM00410; IG_Like; 1.   |             |     |         |
| FT   | NON_TER 1   |             |     |         |
| FT   | NON_TER 214   |             |     |         |
| SO   | SEQUENCE 214 AA; 23922 MW; 52BAZ05FDE95E2A CRC64;   |             |     |         |
| Query Match  | 78.6%; Score 881; DB 11; Length 214;  |             |     |         |
| Best Local Similarity  | 80.2%; Pred. No. 3.2e-70;   |             |     |         |
| Matches 170; Conservative 13; Mismatches 27; Indels 2; Gaps 2; |   |             |     |         |
| QY   | 4 LTQSPAIMSASPGKAVTMTCTASSSVSSYLHWYRKSGASPKIMITYSTSLASGVARF 63  |             |     |         |
| DB   | 4 LTQSPAIMSASPGKAVTMTCTASSSVSSYLHWYRKSGASPKIMITYSTSLASGVARF 62  |             |     |         |
| QY   | 64 SGSSGGSYSSTLISSVAEDATYCOYSGYR-TFGSGTGLETKRADAPTVSIFPPSS 122  |             |     |         |
| DB   | 63 SGSSGGSYSSTLISSVAEDATYCOYSGYR-TFGSGTGLETKRADAPTVSIFPPSS 122  |             |     |         |

[illegible]

|        |        |              |             |
|--------|--------|--------------|-------------|
| RESULT | 2      |              |             |
| Q9U410 |        |              |             |
| ID     | Q9U410 | PRELIMINARY; | PRT; 106 AA |
| Q9U410 |        |              |             |

|    |   |   |  |
|----|---|---|--|
| DT | 01-MAY-2000   | (TREMBLrel. 13, Created)                  |  |
| DT | 01-MAY-2000   | (TREMBLrel. 13, Last sequence update)     |  |
| DT | 01-MAR-2001   | (TREMBLrel. 16, Last annotation update)   |  |
| DE | MONOCLONAL ANTI-IDIOCYTIC ANTIBODY NP30                               | IMMUNOGLOBULIN LIGHT CHAIN                |  |
| DE | VARIABLE REGION (FRAGMENT)  |   |  |
| OS | Schistosoma japonicum (Blood fluke)                                   |   |  |
| OC | Eukaryota; Metazoa; Platyhelminthes; Rhabditophora; Neodermata;       |   |  |
| OC | Trematoda; Digenea; Strigeiida; Schistosomatoidea; Schistosomatidae;  |   |  |
| OC | Schistosoma.  |   |  |
| OX | NCBI_TaxID=6182;  |   |  |
| RN | [1]   |   |  |
| RP | SEQUENCE FROM N.A.  |   |  |
| RA | Song X.T., Feng Z.Q., Qiu Z.N., Li Y.Q., Huang H.L., Guan X.H.;       |   |  |
| RT | "Amplification, cloning and sequence analysis of the light chain      |   |  |
| RT | variable region gene of monoclonal anti-Idiotypic antibody NP30 of    |   |  |
| RT | Schistosoma japonicum."   |   |  |
| RL | Submitted (NOV-1999) to the EMBL/Genbank/DBJ databases.               |   |  |
| CC | 1- SIMILARITY: TO IMMUNOGLOBULIN AND MAJOR HISTOCOMPATIBILITY COMPLEX |   |  |
| CC | DOMAIN.   |   |  |
| DR | EMBL; AF207620; AAF19434.1; -.  |   |  |
| DR | HSSP; P01679; 2FBJ.   |   |  |
| DR | InterPro; IPR003038; -.   |   |  |
| DR | InterPro; IPR003006; -.   |   |  |
| DR | InterPro; IPR003596; -.   |   |  |
| DR | Pfam; PF00047; 1g; 1.   |   |  |
| DR | ProDom; PD000600; -; 1.   |   |  |
| DR | SMART; SM00406; IGV; 1.   |   |  |
| FT | NON_TER   | 1   |  |
| FT | NON_TER   | 106                                       |  |
| Q  | SEQUENCE  | 106 AA; 11478 MW; F20F544426BAE63E CRC64; |  |

[illegible]

|        |   |              |             |
|--------|---|--------------|-------------|
| RESULT | 3   |              |             |
| Q9JL76 |   |              |             |
| ID     | Q9JL76  | PRELIMINARY; | PRT; 97 AA. |
| AC     | Q9JL76;   |              |             |
| DT     | 01-OCT-2000 (TREMBLrel. 15, Created)                              |              |             |
| DT     | 01-OCT-2000 (TREMBLrel. 15, Last sequence update)                 |              |             |
| DT     | 01-MAR-2001 (TREMBLrel. 16, Last annotation update)               |              |             |
| DE     | ANTI-MYOSIN IMMUNOGLOBULIN LIGHT CHAIN VARIABLE REGION (FRAGMENT) |              |             |
| DE     | Mus musculus (Mouse).   |              |             |
| OS     | Mus musculus (Mouse).   |              |             |
| OC     | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; |              |             |
| OC     | Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus |              |             |
| OX     | NCBI_TaxId=10090;   |              |             |
| RN     | [1]   |              |             |
| RP     | SEQUENCE FROM N.A.  |              |             |

RC Strain-DBA/2;  
RA Malkiel S., Liao L., Cunningham M.W., Diamond B.;  
RT "Characterization of cross-reactive monoclonal anti-myosin/anti-n-  
RT acetyl-glucosamine antibodies from mice with autoimmune myocarditis,"  
RL Submitted (NOV-1999) to the EMBL/GenBank/DBJ databases.  
DR EMBL; AF206030; AAF69328.1; -.

|    |          |        |           |                        |
|----|----------|--------|-----------|------------------------|
| FT | NON_TER  | 1      | 1         |                        |
| FT | NON_TER  | 97     | 97        |                        |
| SQ | SEQUENCE | 97 AA; | 10542 MW; | C9EE1FEE1F49DA1C CRC64 |

|                       |        |                    |        |               |
|-----------------------|--------|--------------------|--------|---------------|
| Query Match           | 37.0%; | Score 415;         | DB 11; | Length 97;    |
| Best Local Similarity | 83.8%; | Pred. No. 1.5e-29; |        |               |
| Matches               | 83;    | Conservative       | 6;     | Mismatches 6; |
|                       |        |                    | Indels | 4;            |
|                       |        |                    | Gaps   | 2             |

|    |    |  |     |
|----|----|--|-----|
| Oy | 11 | MSAPGKXVMTCRASSVSSTSLYHVRKQSPASIKLITYSTSLAGVAPARFGSGSGT  | 70  |
|    | :  | :     :     :     :     :     :     :     :     :        |     |
| Db | 1  | LSAPGKXVMTCRASSV--SYMHVYQOKRPSSPKPAITYATSLAGVAPARFGSGSGT | 58  |
| Oy | 71 | SYSLTISVVAEDAAITYCOQYSG--YTFPGSGTLEIK                    | 107 |
|    | :  | :     :     :     :     :     :     :     :              |     |
| Db | 59 | SYSLTISVVAEDAAITYCOQWSSKRYMTFPGSGTLEIK                   | 97  |

|        |        |              |
|--------|--------|--------------|
| RESULT | 4      |              |
| Q9JL78 |        |              |
| ID     | Q9JL78 | PRELIMINARY; |
|        |        | PRT; 101 AA  |

|    |   |  |
|----|---|--|
| DY | 01-OCT-2000   | (TEMBLrel. 15, Created)                |
| DT | 01-OCT-2000   | (TEMBLrel. 15, last sequence update)   |
| DT | 01-MAR-2001   | (TEMBLrel. 16, last annotation update) |
| DE | ANTI-MYOSIN IMMUNOBULIN LIGHT CHAIN VARIABLE REGION (FRCAMBL).        |  |
| OS | Mus musculus (mouse)  |  |
| OC | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;     |  |
| OC | Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.    |  |
| OX | NCBI_TaxId=10090;   |  |
| RN | [1]   |  |
| RP | SEQUENCE FROM N.A.  |  |
| RC | STRAIN=A.CA;  |  |
| RA | Malkiel S., Liao L., Cunningham M.W., Diamond B.;                     |  |
| RT | "Characterization of cross-reactive monoclonal anti-myosin/anti-n-    |  |
| RT | acetyl-glucosamine antibodies from mice with autoimmune myocarditis." |  |
| RL | submitted (NOV-1999) to the EMBL/Genbank/DBJ databases.               |  |
| DR | EMBL; AF206028; AAF69326.1; -.  |  |
| DR | InterPro; IPR003006; -.   |  |
| DR | InterPro; IPR003596; -.   |  |
| DR | Pfam; PF00047; Ig; 1.   |  |
| DR | SMART; SM00406; IGV; 1.   |  |
| FT | NON_TER 1   |  |
| FT | NON_TER 101   |  |
| SQ | SEQUENCE 101 AA; 10778 MW; 0A7F65E6A7E6F14D CRC64;                    |  |

|                          |        |                    |           |             |
|--------------------------|--------|--------------------|-----------|-------------|
| Query Match              | 35.0%; | Score 392;         | DB 11;    | Length 101; |
| Best Local Similarity    | 77.8%; | Pred. No. 1.7e-27; |           |             |
| Matches 77; Conservative | 8;     | Mismatches 12;     | Indels 2; | Gaps 1      |

0y 11 MSA<sup>SP</sup>EK<sup>ET</sup>Y<sup>TM</sup>NC<sup>R</sup>ASS<sup>SS</sup>Y<sup>SL</sup>HWY<sup>OK</sup>KGAS<sup>PK</sup>LM<sup>YT</sup>STSL<sup>AG</sup>V<sup>AR</sup>SG<sup>SG</sup>SG<sup>T</sup> 70  
Db 3 MAA<sup>SP</sup>EK<sup>ET</sup>IT<sup>TC</sup>SA<sup>SS</sup>SS<sup>SS</sup>SL<sup>HW</sup>Y<sup>OK</sup>KG<sup>FP</sup>SK<sup>LL</sup>IT<sup>RT</sup>SL<sup>AG</sup>V<sup>TP</sup>TR<sup>SS</sup>SG<sup>SG</sup>SG<sup>T</sup> 62

0y 71 SYS<sup>LT</sup>IS<sup>SV</sup>EAD<sup>DA</sup>TY<sup>Y</sup>Q<sup>Q</sup>AT<sup>Y</sup>SG<sup>T</sup>--RT<sup>EG</sup>CG<sup>T</sup>K<sup>LE</sup>IK<sup>E</sup> 107  
Db 63 SYS<sup>LT</sup>IT<sup>GL</sup>MEAD<sup>VA</sup>TY<sup>Y</sup>Q<sup>Q</sup>GS<sup>SS</sup>LP<sup>RY</sup>TF<sup>EG</sup>GY<sup>TK</sup>LE<sup>IK</sup> 101

|        |        |              |
|--------|--------|--------------|
| RESULT | 5      |              |
| Q9UL78 |        |              |
| ID     | Q9UL78 | PRELIMINARY; |
|        |        | PRT; 109 AA  |

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AC 09UL78;
DT 01-MAY-2000 (Tremblrel. 13, Created)
DE 01-MAY-2000 (Tremblrel. 13, Last sequence update)
DE 01-MAR-2001 (Tremblrel. 16, Last annotation update)
DE MYOSIN-REACTIVE IMMUNOGLOBULIN LIGHT CHAIN VARIABLE REGION (FRAGMENT).
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=98277139; PubMed=9614934;
RA Wu X., Liu B., Van der Merwe P.L., Kalis N.N., Berney S.M.,
RA Young D.C.;
RT "Myosin-reactive autoantibodies in rheumatic carditis and normal
RT fetus.";
RL Clin. Immunol. Immunopathol. 87:184-192(1998).
CC -1- SIMILARITY: TO IMMUNOGLOBULIN AND MAJOR HISTOCOMPATIBILITY COMPLEX
CC DOMAIN.
DR EMBL: AF035036; AAD56272.1; -.
DR HSSP: P01789; IMCP.
DR InterPro: IPR003006; -.
DR InterPro: IPR003596; -.
DR Pfam: PF00047; 1g; 1.
DR SMART: SM00406; 1g; 1.
FT NON_TER 1
FT NON_TER 109
SQ SEQUENCE 109 AA; 11646 MW; 5F675C52EC7EE197 CRC64;

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Query Match 33.0%; Score 369.5; DB 4; Length 109;
Best Local Similarity 66.1%; Pred. No. 1.8e-25;
Matches 72; Conservative 14; Mismatches 22; Indels 1; Gaps 1;

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```

QY 1 ENVLQSPALMSAPGKVTMTCRASSSVSSSYLHWKRGSGAPKIMYSTSLASGVP 60
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
DQ 1 EIVLTQSPGTLISLPERGATLSCRASQSVSSYLAWYQKRGQAPRLITYGASSRATGIP 60
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
DB 61 ARFSGSGSTSYSLTISVEAEADATYYCOQY-SGYRTFGGCTLEIKR 108
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
61 DRFGSGSGSTGDTLTLSLPEDECAVYCCQYGSSTPLTFGGTVEIKR 109

RESULT 6
Q9UL77 PRELIMINARY; PRT; 108 AA.
ID 09UL77;
DT 01-MAY-2000 (Tremblrel. 13, Created)
DE 01-MAY-2000 (Tremblrel. 13, Last sequence update)
DE 01-MAR-2001 (Tremblrel. 16, Last annotation update)
DE MYOSIN-REACTIVE IMMUNOGLOBULIN LIGHT CHAIN VARIABLE REGION (FRAGMENT).
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=98277139; PubMed=9614934;
RA Wu X., Liu B., Van der Merwe P.L., Kalis N.N., Berney S.M.,
RA Young D.C.;
RT "Myosin-reactive autoantibodies in rheumatic carditis and normal
RT fetus.";
RL Clin. Immunol. Immunopathol. 87:184-192(1998).
CC -1- SIMILARITY: TO IMMUNOGLOBULIN AND MAJOR HISTOCOMPATIBILITY COMPLEX
CC DOMAIN.
DR EMBL: AF035037; AAD56273.1; -.
DR HSSP: P01607; IRET.
DR InterPro: IPR003006; -.
DR InterPro: IPR003596; -.
DR Pfam: PF00047; 1g; 1.
DR SMART: SM00406; 1g; 1.
FT NON_TER 1
FT NON_TER 108

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SQ SEQUENCE 108 AA; 11738 MW; C06681716C4D16F3 CRC64;

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Query Match 31.3%; Score 351; DB 4; Length 108;
Best Local Similarity 66.0%; Pred. No. 7.7e-24;
Matches 70; Conservative 18; Mismatches 16; Indels 2; Gaps 2;

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```

QY 4 LTQSPALMSAPGKVTMTCRASSSVSSSYLHWKRGSGAPKIMYSTSLASGVPARF 63
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
DB 4 MTQSPSSLSASVGRVITTCRASQSI-SSYLNWYQKRGKAPRLITYAASSLSQGVPSRF 62
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
QY 64 SGSSGSGSTSYSLTISVEAEADATYYCOQY-YSGYRTFGGCTLEIKR 108
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
DB 63 SGSSGSGSTGDTLTLSLPEDECAVYCCQYGSSTPLTFGGTVEIKR 108
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |

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## RESULT 7

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Q9UL86 PRELIMINARY; PRT; 109 AA.
ID 09UL86;
DT 01-MAY-2000 (Tremblrel. 13, Created)
DE 01-MAY-2000 (Tremblrel. 13, Last sequence update)
DE 01-MAR-2001 (Tremblrel. 16, Last annotation update)
DE MYOSIN-REACTIVE IMMUNOGLOBULIN HEAVY CHAIN VARIABLE REGION (FRAGMENT).
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=98277139; PubMed=9614934;
RA Wu X., Liu B., Van der Merwe P.L., Kalis N.N., Berney S.M.,
RA Young D.C.;
RT "Myosin-reactive autoantibodies in rheumatic carditis and normal
RT fetus.";
RL Clin. Immunol. Immunopathol. 87:184-192(1998).
CC -1- SIMILARITY: TO IMMUNOGLOBULIN AND MAJOR HISTOCOMPATIBILITY COMPLEX
CC DOMAIN.
DR EMBL: AF035028; AAD56264.1; -.
DR HSSP: P01789; IMCP.
DR InterPro: IPR003006; -.
DR InterPro: IPR003596; -.
DR Pfam: PF00047; 1g; 1.
DR SMART: SM00406; 1g; 1.
FT NON_TER 1
FT NON_TER 109
SQ SEQUENCE 109 AA; 11928 MW; 243325F72C7DAC83 CRC64;

```

```

Query Match 31.1%; Score 348.5; DB 4; Length 109;
Best Local Similarity 63.3%; Pred. No. 1.3e-23;
Matches 69; Conservative 15; Mismatches 24; Indels 1; Gaps 1;

```

```

QY 1 ENVLQSPALMSAPGKVTMTCRASSSVSSSYLHWKRGSGAPKIMYSTSLASGVP 60
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
DB 1 EIVLTQSPGTLISLPERGATLSCRASQSVSSYLAWYQKRGQAPRLITYGSSRATGIP 60
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
QY 61 ARFSGSGSTSYSLTISVEAEADATYYCOQY-SGYRTFGGCTLEIKR 108
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
DB 61 DRFGSGSGSTGDTLTLSLPEDECAVYCCQYGSSTPLTFGGTVEIKR 109
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |

RESULT 8
Q9UL70 PRELIMINARY; PRT; 108 AA.
ID 09UL70;
DT 01-MAY-2000 (Tremblrel. 13, Created)
DE 01-MAY-2000 (Tremblrel. 13, Last sequence update)
DE 01-MAR-2001 (Tremblrel. 16, Last annotation update)
DE MYOSIN-REACTIVE IMMUNOGLOBULIN LIGHT CHAIN VARIABLE REGION (FRAGMENT).
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

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OX NCBI\_TaxID=9606;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=98277139; PubMed=9614934;  
 RA Wu X., Liu B., Van der Merwe P.L., Kalis N.N., Berney S.M.,  
 RA Young D.C.;  
 RT "Myosin-reactive autoantibodies in rheumatic carditis and normal  
 RT fetus";  
 RL Clin. Immunol. Immunopathol. 87:184-192(1998).  
 CC -I- SIMILARITY: TO IMMUNOGLOBULIN AND MAJOR HISTOCOMPATIBILITY COMPLEX  
 CC DOMAIN.  
 DR EMBL; AF035044; AAD56280.1; -.  
 DR HSSP; P01607; 1RET.  
 DR InterPro; IPR003006; -.  
 DR InterPro; IPR003596; -.  
 DR Pfam; PF00047; 1g; 1.  
 DR SMART; SM00406; 1g; 1.  
 FT NON\_TER 1  
 FT NON\_TER 108  
 SQ SEQUENCE 108 AA; 11633 MW; B7BEDC3E41FCCA37 CRC64;

Query Match 30.9%; Score 346; DB 4; Length 108;  
 Best Local Similarity 65.1%; Pred. No. 2.1e-23;  
 Matches 69; Conservative 16; Mismatches 19; Indels 2; Gaps 2;

OY 4 LKQSPAIMSAPGEKVTMTCRASSSVSSYLHWYRQKSGASPMLTYSTNSLASGVPARF 63  
 DB 4 MWSPESSLASVGDRTVITCRASOGI-SNLLAWYQOKPGKVPKSLTYASTLQSGVPSR 62  
 OY 64 SSGSGSTSYSLTISVEADATATYCOQY-SGYRFGGKTLEIKR 108  
 DB 63 SSGSGSTDTFTLTISLQPEDVATYTCQKYNASAPRTGPGKLEIKR 108

RESULT 9  
 OYULB5  
 ID 09UL85 PRELIMINARY; PRT; 109 AA.  
 AC 09UL85;  
 DT 01-MAY-2000 (TREMBLrel. 13, Created)  
 DT 01-MAY-2000 (TREMBLrel. 13, Last sequence update)  
 DT 01-MAR-2001 (TREMBLrel. 16, Last annotation update)  
 DE MYOSIN-REACTIVE IMMUNOGLOBULIN HEAVY CHAIN VARIABLE REGION (FRAGMENT).  
 OS Homo sapiens (Human).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.  
 OX NCBI\_TaxID=9606;  
 RP SEQUENCE FROM N.A.  
 RN [1]  
 RX MEDLINE=98277139; PubMed=9614934;  
 RA Wu X., Liu B., Van der Merwe P.L., Kalis N.N., Berney S.M.,  
 RA Young D.C.;  
 RT "Myosin-reactive autoantibodies in rheumatic carditis and normal  
 RT fetus";  
 RL Clin. Immunol. Immunopathol. 87:184-192(1998).  
 CC -I- SIMILARITY: TO IMMUNOGLOBULIN AND MAJOR HISTOCOMPATIBILITY COMPLEX  
 CC DOMAIN.  
 DR EMBL; AF035029; AAD56265.1; -.  
 DR HSSP; P01607; 1RET.  
 DR InterPro; IPR003006; -.  
 DR InterPro; IPR003596; -.  
 DR Pfam; PF00047; 1g; 1.  
 DR SMART; SM00406; 1g; 1.  
 FT NON\_TER 1  
 FT NON\_TER 109  
 SQ SEQUENCE 109 AA; 11761 MW; FB1E43E7C7AFACCC CRC64;

Query Match 30.8%; Score 345.5; DB 4; Length 109;  
 Best Local Similarity 60.9%; Pred. No. 2.4e-23;  
 Matches 67; Conservative 21; Mismatches 19; Indels 3; Gaps 2;

OY 1 ENVLQSPAIMSAPGEKVTMTCRASSSVSSYLHWYRQKSGASPMLTYSTNSLASGVP 60

DB 1 EIVMTQSPATLVSPEGRATLSCMASQISSN-LAWYQOKPGQAPRLLIYGASTRATGIP 59  
 OY 61 ARPSGSGSTSYSLTISVEADATATYCOQYSGY--RFFGGTKLEIKR 108  
 DB 60 ARPSGSGSTDTFTLTISLQSEDPAITYCOQYNSWPLTFGGTKVEIKR 109

RESULT 10  
 OYUL79  
 ID 09UL79 PRELIMINARY; PRT; 108 AA.  
 AC 09UL79;  
 DT 01-MAY-2000 (TREMBLrel. 13, Created)  
 DT 01-MAY-2000 (TREMBLrel. 13, Last sequence update)  
 DT 01-MAR-2001 (TREMBLrel. 16, Last annotation update)  
 DE MYOSIN-REACTIVE IMMUNOGLOBULIN LIGHT CHAIN VARIABLE REGION (FRAGMENT).  
 OS Homo sapiens (Human).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.  
 OX NCBI\_TaxID=9606;  
 RP SEQUENCE FROM N.A.  
 RN [1]  
 RX MEDLINE=98277139; PubMed=9614934;  
 RA Wu X., Liu B., Van der Merwe P.L., Kalis N.N., Berney S.M.,  
 RA Young D.C.;  
 RT "Myosin-reactive autoantibodies in rheumatic carditis and normal  
 RT fetus";  
 RL Clin. Immunol. Immunopathol. 87:184-192(1998).  
 CC -I- SIMILARITY: TO IMMUNOGLOBULIN AND MAJOR HISTOCOMPATIBILITY COMPLEX  
 CC DOMAIN.  
 DR EMBL; AF035035; AAD56271.1; -.  
 DR HSSP; P01607; 1RET.  
 DR InterPro; IPR003006; -.  
 DR InterPro; IPR003596; -.  
 DR Pfam; PF00047; 1g; 1.  
 DR SMART; SM00406; 1g; 1.  
 FT NON\_TER 1  
 FT NON\_TER 108  
 SQ SEQUENCE 108 AA; 11787 MW; DB5845F19724FB4E CRC64;

Query Match 30.6%; Score 343; DB 4; Length 108;  
 Best Local Similarity 61.7%; Pred. No. 3.9e-23;  
 Matches 66; Conservative 21; Mismatches 18; Indels 2; Gaps 2;

OY 3 VLTQSPAIMSAPGEKVTMTCRASSSVSSYLHWYRQKSGASPMLTYSTNSLASGVPAR 62  
 DB 3 VMTQSPSLTASTGDRVTITCRMSOGI-SSYLAWYQOKPGKAPELLTYASTLQSGVPSR 61  
 OY 63 FSGSGSTSYSLTISVEADATATYCOQYSGY-RFFGGTKLEIKR 108  
 DB 62 FSGSGSGTDTFTLTISLQSEDPAITYCOQYSPFPFGGTVKEIKR 108

RESULT 11  
 OYUL81  
 ID 09UL81 PRELIMINARY; PRT; 107 AA.  
 AC 09UL81;  
 DT 01-MAY-2000 (TREMBLrel. 13, Created)  
 DT 01-MAY-2000 (TREMBLrel. 13, Last sequence update)  
 DT 01-MAR-2001 (TREMBLrel. 16, Last annotation update)  
 DE MYOSIN-REACTIVE IMMUNOGLOBULIN LIGHT CHAIN VARIABLE REGION (FRAGMENT).  
 OS Homo sapiens (Human).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.  
 OX NCBI\_TaxID=9606;  
 RP SEQUENCE FROM N.A.  
 RN [1]  
 RX MEDLINE=98277139; PubMed=9614934;  
 RA Wu X., Liu B., Van der Merwe P.L., Kalis N.N., Berney S.M.,  
 RA Young D.C.;  
 RT "Myosin-reactive autoantibodies in rheumatic carditis and normal  
 RT fetus";



